

21.4: Discussion

Discussion (30 points)

Write a minimum one-page (12 font, single spaced) discussion on the experiment conducted this week. **The assignment will be graded on completeness, clarity of the explanations and the meaningful integration of the collected and calculated data.** Correct grammar and appropriate format for the chemical formulae and chemical reactions is expected. **You may use the outline included at the end of this document on how to build your essay to address each category.**

1. What would you predict would happen if the filter paper were replaced with another medium (like paper towel, or silica gel, plastic sheets or sand)?
2. Describe at least one more application of paper chromatography.
3. What determines how far the color moves?
4. What determines how far the solvent moves?
5. Why should you cover the chamber when doing paper chromatography?
6. What is the stationary phase in the experiment?
7. What are the drawbacks of paper chromatography?
8. How does paper chromatography work?
9. What experiment would you like to try using paper chromatography?

Recommended discussion outline:

The concepts I used in this experiment were...

The most important aspect of this experiment was...

The purpose of the experiment was (Hint: it was not to determine the colors making up food dye) ... By performing this experiment, I learned...

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